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INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

PTO Form 1449

Page 2 of 3

Attorney Docket No.:
042021-5002

Application No.:
09/621,645

Applicants: Robert E. BRIDGES et al.

Filing Date: July 24, 2000

Group: 2877

U.S. PATENT DOCUMENTS (Continued)

*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
al	4,721,385	01/26/88	Jelalian et al.	356	5	
	4,714,339	12/22/87	Lau et al.	356	4.5	
	4,621,926	11/11/86	Merry et al.	356	363	
	4,459,022	07/10/84	Morey	356	152	
	4,457,625	07/03/84	Greenleaf et al.	356	360	
	4,436,417	03/13/84	Hutchin	356	4.5	
	4,386,848	06/07/83	Clendenin et al.	356	5	
	4,025,193	05/24/77	Pond et al.	356	5	
	4,020,340	04/26/77	Cooke	250	203 R	
	3,926,523	12/16/75	Chapman	356	110	

FOREIGN PATENT DOCUMENTS

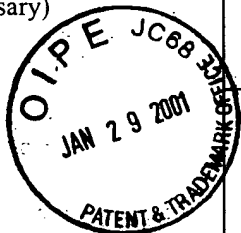
Document Number	Date	Country	Class	Sub Class	Translation YES NO
JP 07-332923	12/22/95	Japan			Abstract
DE 32 05 362	08/25/83	Germany			Abstract

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Page 1 of 3



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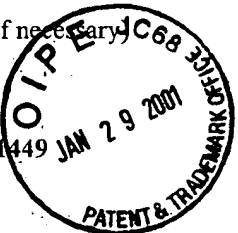
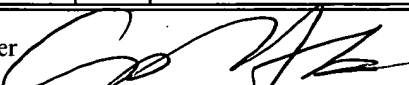
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U.S. PATENT DOCUMENTS

*Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date
<i>all</i>	6,049,377	04/11/00	Lau et al.	356	73	
	5,979,070	11/09/99	Lau	33	559	
	5,973,788	10/26/99	Pettersen et al.	356	375	
	5,969,817	10/19/99	Ohsawa	356	363	
	5,883,803	03/16/99	Vann	364	167.01	
	5,805,287	09/08/98	Pettersen et al.	356	375	
	5,589,928	12/31/96	Babbitt et al.	356	4.1	
	5,557,406	09/17/96	Taylor et al.	356	345	
	5,508,804	04/16/96	Fürstenau	356	345	
	5,440,392	08/08/95	Pettersen et al.	356	375	
	5,402,230	03/28/95	Tian et al.	356	349	
	5,367,373	11/22/94	Busch-Vishniac et al.	356	139.03	
	5,267,014	11/30/93	Prenninger	356	152	
	5,200,838	04/06/93	Nudelman et al.	358	443	
	5,200,797	04/06/93	Tank et al.	356	363	
	5,198,874	03/30/93	Bell et al.	356	358	
	5,196,900	03/23/93	Pettersen	356	141	
	5,114,226	05/19/92	Goodwin et al.	356	5	
	5,095,472	03/10/92	Uchino et al.	369	44.14	
	5,059,789	10/22/91	Salcudean	250	206.1	
	5,056,921	10/15/91	Chaney	356	351	
	4,830,486	05/16/89	Goodwin	356	5	
	4,790,651	12/13/88	Brown et al.	356	4.5	

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) <div style="text-align: center;">  PTO Form 1449 Page 3 of 3 </div>		Attorney Docket No.: 042021-5002	Application No.: 09/621,645
		Applicants: Robert E. BRIDGES et al.	
		Filing Date: July 24, 2000	Group: 2877
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
all		Takatsuji, T., et al., "Laser Tracking Coordinate Measuring System Developed by NRLM," <i>Proceedings of the International Dimensional Metrology Workshop</i> , E. Pritchard (editor), conducted in Knoxville, TN in May 1999.	
		Brochure of Tokyo Seimitsu, "Sensors, Analyzers and Display Units".	
		✓ Prenninger, J.P., Dissertation entitled "Position and Orientation Measurement of Industrial Robots Using Laser Tracking Techniques in 6 Degrees of Freedom," May 1992, pp. 1-94.	
		Makamura, O., et al., "A laser tracking robot-performance calibration system using ball-seated bearing mechanisms and a spherically shaped cat's-eye retroreflector," <i>Review of Scientific Instruments</i> , Vol. 65, Part 1, No. 4 (1994) pp. 1006-1011 [as reproduced by the <i>Bulletin of the National Research Laboratory of Metrology (Ibaraki, Japan)</i> , October 1994, pp 19-24].	
		Takatsuji, T., et al., "Restriction on the arrangement of laser trackers in laser trilateration," <i>Measurement Science & Technology</i> , Vol. 9, 1998, pp. 1357-1359.	
		Takatsuji, T., et al., "The first measurement of a three-dimensional coordinate by use of a laser tracking interferometer system based on trilateration," <i>Measurement Science & Technology</i> , Vol. 9, No 1, 1998, pp. 38-41.	
		Arnspang, Jr., J., et al., "Image irradiance equations for a zooming camera," <i>Pattern Recognition Letters</i> , Vol. 10, No. 3, September 1989, pp. 189-194.	
		Chang, Y., et al., "On Recursive Calibration of Cameras for Robot Hand-eye Systems," <i>1989 IEEE International Conference on Robotics and Automation</i> , Vol. 2, pp. 838-843.	
		Lenz, R., et al., "Techniques for Calibration of the Scale Factor and Image Center for High Accuracy 3-D Machine Vision Metrology," <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , Vol. 10, No. 5, September 1988, pp. 713-720.	
		✓ Takatsuji, T., et al., "Whole-viewing-angle cat's-eye retroreflector as a target of laser trackers," <i>Measurement Science & Technology</i> , Vol. 10, No 7, July 1999, pp. N87-N90.	
Examiner			Date Considered 5/23/02